

IN THE CLAIMS:

1. (Currently amended) A non-austemper-treated spheroidal graphite cast iron obtainable without being subjected to an austemper treatment, characterized in that the non-austemper-treated spheroidal graphite cast iron has a tensile strength of 650 - 850 MPa and an elongation of 7.0 - 14.5%, wherein the spheroidal graphite cast iron consists essentially of 0.05 to 0.45% by mass Mn, 2.0 to 4.0% by mass Ni, 3.1 to 4.0% by mass C, 1.8 to 3.0% by mass Si, up to 0.05% by mass P, up to 0.02% by mass S, 0.02 to 0.06% by mass Mg, and the balance Fe.

2. (Currently amended) A non-austemper-treated spheroidal graphite cast iron obtained without being subjected to an austemper treatment according to claim 1, characterized in that V-notch material has a fatigue limit of 290 MPa or more.

3. (Currently amended) A non-austemper-treated spheroidal graphite cast iron according to claim 1, wherein the non-austemper-treated spheroidal graphite cast iron contains ~~0.05~~ 0.1 to 0.35% by mass of Mn.

4. (Currently amended) A non-austemper-treated spheroidal graphite cast iron according to claim 3 1, wherein the non-

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~~austemper-treated spheroidal graphite cast iron contains 2.0~~
~~4.0% by mass of Ni~~ has a Brinell hardness of 230 to 285 HB.

5. (Currently amended) A non-austemper-treated spheroidal graphite cast iron according to claim 3 2, wherein the non-austemper-treated spheroidal graphite cast iron has a Brinell hardness of 230 - 285 HB.

6. (Currently amended) A non-austemper-treated spheroidal graphite cast iron according to claim 4 3, wherein the non-austemper-treated spheroidal graphite cast iron has a flank wear of 0.13 mm or less in a cutting distance of 1.7 km.

7. (Currently amended) A non-austemper-treated spheroidal graphite cast iron according to claim 2, wherein the non-austemper-treated spheroidal graphite cast iron contains ~~0.05-~~
~~0.45~~ 0.1 to 0.35% by mass of Mn.

8. (Currently amended) A non-austemper-treated spheroidal graphite cast iron according to claim 7, wherein the non-austemper-treated spheroidal graphite cast iron ~~contains 2.0~~
~~4.0% mass of Ni~~ has a flake wear of 0.13 mm or less in a
cutting distance of 1.7 km.

9. (Currently amended) A non-austemper-treated spheroidal graphite cast iron according to claim 1, wherein the non-austemper-treated spheroidal graphite cast iron has a flank wear of 0.13 mm or less in a cutting distance of 1.7 km.

10. (Currently amended) A non-austemper-treated spheroidal graphite cast iron according to claim 2, wherein the non-austemper-treated spheroidal graphite cast iron has a flank wear of 0.13 mm or less in a cutting distance of 1.7 km.

